## HT X3 100kVA - 200kVA

The HT X3 is a three-phase in/three-phase out UPS designed with on-line double conversion technology and has filtered and stabilised sinusoidal output voltage. It is fitted with input and output filters making it immune to interference from power supply lines.

The digital microprocessor controller enables information exchange and ensures that parallel connections are monitored and that the current is balanced. The HT X3's innovative design means that it can be installed in parallel to increase available power, even after the initial unit's installation. The Dual Bus System powers priority loads from 2 independent sources increasing redundancy and availability level of multi-module configuration. Two systems can be merged together for expansion or maintenance at any time.

The ECO mode increases efficiency by up to 98% thus reducing energy dissipation and running costs; this is achieved by using mains as priority for the load and switching load/s to the inverter only when mains characteristics exceed the set parameters.

The X3 has high overload capability, galvanic isolation and low harmonic distortion; all models of the X3 series can also be used as frequency converters (50Hz ↔ 60Hz). UPSMon software displays, in a bar graph, the input/output voltage, load applied, remaining back-up time, etc.

The front mimic panel of the UPS allows access to menu items and information including: status and alarms, control commands, input, output,



settings and battery measurements – power, voltage, current frequency and temperature.

The diagnostics system contains up to 128 alarms and messages.

Back feed protection prevents voltage from feeding back into the distribution board in order to keep maintenance personnel safe.

Model	Capacity		
HT 100	100kVA		
HT 120	120kVA		
HT 160	160kVA		
HT 200	200kVA		

## **Product Specifications**

		Model	HT 100	HT 120	HT 160	HT 200	
	Conti	nuous Output Power	100kVA	120kVA	160kVA	200kVA	
		Rated Voltage		400V <sub>AC</sub> Three-phase + N			
		Voltage Range	± 20%				
_		Frequency Range	50/60Hz ± 5Hz				
Input		Soft Start	0-100% in 10sec				
-		Technology	On-line, double conversion AND line-interactive				
	Power Factor		> 0.9 in HT Clean version				
		<b>Harmonic Distortion</b>		< 5% in HT Clean version			
	Rectifier	Output Ripple	< 1%				
	Rect	Maintenance Voltage	Varies according to temperature				
		Efficiency	> 93%				
		Rated Power	80kW	96kW	128kW	160kW	
		Phases	Three + N				
		Rated Voltage	400V 3-phase - configurable				
		Rated Current	145A	174A	230A	290A	
Output		AVR	348/424 V - configurable				
ō	Crest Factor			. 3	:1		
	Waveform Static Stability	Waveform		Sinus	soidal		
		Static Stability	± 1%				
		Dynamic Stability	± 5% in 5ms				
		Frequency	50/60Hz - configurable				
		Overload	110% for 5h / 125% for 10min / 150% for 1min				
			± 0.05% (ma	ains failure) / ± 2	2% (selectable ±	1 – 5% with	
	Frequency Stability			mains	supply)		
_		Back Feed Protection		YI	ES		
tion		Rated Voltage	400V <sub>AC</sub> Three-phase				
Bypass & Protection		Voltage Range	Set: ± 15% Selectable: Between ± 10% & ± 20%			& ± 20%	
<u>න</u> ල		Rated Frequency	50/60Hz (Auto sensing)				
ass		Circuit Breaker	YES				
Зур		Shutdown	Auto shutdown programmable for prolonged black-out				

	Туре	Maintenance-free lead acid, VRLA AGM/GEL, NiCd				
>	Max. Recharge Current	0.2 x C 10				
Battery	<b>Internal Batteries</b>	NO				
Ba	Protection	Periodic self-test, Protection against deep discharge, Recharge temperature compensation				
	Net Weight Kg (lbs.)	756 (1666.7) 901 (1986.4) 1300 (2866) 1360 (2998.3				
	Dimensions (mm)	1070 x 745 x 1400 1420 x 745 x 1800				
	WxDxH	42.1" x 29.3" x 55.1" 55.9" x 29.3" x 70.9"				
	Colour	Light grey RAL 7035				
Ca	Display	Status LEDs / Status LEDs & LCD				
Physical	Expandable	YES – up to 8 units synchronised using UGS (UPS Group Synchroniser)				
	RS232	YES				
	Remote Controls	EPO and bypass contacts				
	Dry Contacts	YES				
_	LED	YES				
Alarm	LCD	YES				
A	Audible	YES				
ent	Operating Temperature	0 – 45°C				
onmo	Relative Humidity	0 – 95% non-condensing				
Environment	Noise	< 60dBA (1 metre from surface)				
Compliance	Protection Rating	IP20				
mpli		EN 62040-1 EMC EN 62040-2				
Ö	Safety	Directives 73/23 - 93/68 - 89/339 EC EN 62040-3				

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	Empty Battery Cabinets	Χ	X	X	X
	Parallel Kit	X	X	X	X
OPTIONS	LCD-based Remote Control Panel	X	X	X	X
	LED-based Remote Control Panel	Χ .	X	X	X
	MultiCom 351	X	X	X	X
	MultiCom 301	X	X	X	Χ
	Netman 101Plus	X	X	X	X
	Multi I/O	X	X	X	Χ
	IRMS Multi-switch	Χ	X	X	Χ
	AS/400 Interface	X	X	X	X
	UPS Remote Contacts  Expander	X	X	X	X
	UPS Group Synchroniser	X	X	×	X
	Power System Joiner	X	X	X	X
	MultiCom 401	X	X	X	X